

WHAT IS CLAIMED IS:

1. An apparatus, comprising:
 - a multi-level symbol encoder to receive display data and to generate multi-level symbols;
 - an optical link coupled to the symbol encoder; and
 - 5 a multi-level symbol decoder coupled to the optical link to receive the symbols and to re-create the display data.
2. The apparatus of claim 1, wherein the symbol encoder and the symbol decoder are associated with at least one of: (i) multi-level amplitude symbols, (ii) multi-level phase symbols, and (iii) multi-level pulse width symbols.
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3. The apparatus of claim 1, wherein the optical link includes:
 - a light source coupled to the symbol encoder;
 - an optical waveguide coupled to the light source; and
 - 15 an optical receiver coupled to the optical waveguide and to the symbol decoder.
4. The apparatus of claim 3, wherein the light source is a laser diode, the optical waveguide is a fiber optic cable, and the optical receiver is a positive, intrinsic, negative diode.
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5. The apparatus of claim 3, wherein the apparatus further includes an amplifier coupled between the optical receiver and the symbol decoder.

6. The apparatus of claim 3, wherein the symbol encoder receives the display data from at least one of: (i) a processor, (ii) a chipset, (iii) a low voltage differential signaling interface, (iv) a graphics array interface, and (v) a digital video out interface.

5 7. The apparatus of claim 1, further comprising a display device to receive the display data from the symbol decoder.

10 8. The apparatus of claim 7, wherein the display device comprises one of: (i) a liquid-crystal display device, (ii) a light-emitting diode display device, (iii) a gas-plasma display device, (iv) a cathode ray tube display device, (v) a field emission device, (vi) a flat panel device, and/or (vii) a passive transmissive device.

15 9. The apparatus of claim 1, wherein the symbol encoder is housed in a first portion of a mobile computer, the symbol decoder is housed in a second portion of the mobile computer, and the first and second portions are movably coupled.

10. A method, comprising:
encoding display data into multi-level symbols;
transmitting the symbols via an optical link; and
20 decoding the symbols into the display data.

11. The method of claim 10, wherein the encoding and decoding are associated with at least one of: (i) multi-level amplitude symbols, (ii) multi-level phase symbols, and (iii) multi-level pulse width symbols.

12. The method of claim 10, further comprising:
receiving the display data.

13. The method of claim 10, wherein the display data is received from a chipset.

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14. The method of claim 10, further comprising:
providing the display data to a display device.

15. An article, comprising:
10 a storage medium having stored thereon instructions that when executed by a machine result in the following:

encoding display data into multi-level symbols,
transmitting the symbols via an optical link, and
decoding the symbols into the display data.

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16. The article of claim 15, wherein execution of the instructions further results in:
providing the display data to a display device.

20 17. An apparatus, comprising:
a first portion, the first portion housing:
a keyboard,
a processor, and

a multi-level symbol encoder to receive display data generated by the processor and to generate multi-level symbols; and
a second portion, the second portion housing:
a multi-level symbol decoder to receive the symbols and to re-create the display data, and
5 a display device to receive the re-created display data,
wherein an optical link couples to the symbol encoder and symbol decoder.

18. The apparatus of claim 17, wherein the first portion and the second portion
10 are movably coupled.

19. The apparatus of claim 18, wherein the apparatus is a mobile computer.

20. A mobile computer, comprising:
15 a first portion, the first portion housing:
a processing device; and
a second portion, the second portion housing:
a display device,
wherein an optical link is to provide data from the processing device to the display
20 device.

21. The apparatus of claim 20, wherein the first portion and the second portion
are movably coupled.

22. A system, comprising:

a multi-level symbol encoder to receive display data and to generate multi-level symbols;

an optical link coupled to the symbol encoder;

5 a multi-level symbol decoder coupled to the optical link to receive the symbols and to re-create the display data; and

a liquid-crystal display device to receive the display from the symbol decoder.

23. The system of claim 22, wherein the optical link comprises:

10 a light source coupled to the symbol encoder;

an optical waveguide coupled to the light source; and

an optical receiver coupled to the optical waveguide and to the symbol decoder.

24. An apparatus, comprising:

15 a first portion, the first portion housing:

a processor, and

20 a multi-level symbol encoder to receive peripheral data and to generate multi-level symbols; and

a second portion, the second portion housing:

a multi-level symbol decoder to receive the symbols and to re-create the peripheral data, and

a peripheral interface,

wherein an optical link couples to the symbol encoder and symbol decoder.

25. The apparatus of claim 24, wherein the first portion and the second portion are movably coupled.

26. The apparatus of claim 25, wherein the apparatus is mobile computer.

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27. The apparatus of claim 26, wherein the peripheral interface is associated with a universal serial bus.